



**3-Course
Series**

- Business Intelligence (Using Power BI & Tableau)
- Data Analytics using R
- MS Excel Essentials

Online Self-Paced Course

DATA ANALYSIS & VISUALIZATION *THEMED TRACK*



Duration of 63 Hours

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Business Intelligence (Power BI & Tableau)

Module 1: Introduction

Module 2: Power BI

Module 3: Tableau

Module 4: Software Support

- a. Support Material
- b. Final Assessment
- c. Power BI and Tableau Instructions
- d. Software Download Instructions

Data Analytics using R

Module 1: Introduction and Programming

1. Introduction to Data Analytics
2. Introduction to R
 - a. R programming
 - b. R programming - Case Study
 - c. Customer Churn

Module 2: Statistics and Visualization

1. Data Visualization: Various graphs, charts
2. Data Visualization: Advance
3. Descriptive Statistics: Basic statistical techniques including data properties: Hypothesis testing DPLYR package.
4. Linear Regression Model
5. Multinomial Linear Regression - Case Study
6. Logistic Regression
7. Multinomial Logistic Regression
 - a. Multinomial Logistic Regression - Case Study

Module 3: Advance Methods

1. Introduction to Artificial intelligence, ML and Deep learning
2. Neural Networks
3. Support Vector Machines (SVM)
4. Support Vector Machines (SVM) - Case Study
5. Decision Tree
6. Random Forest
7. K-nearest Neighbors
8. K-nearest Neighbors - Case Study
9. Clustering (K Means)
10. Principle Component Analysis
11. Principle Component Analysis - Case Study

MS Excel Essentials

Module 1: Excel Functions 1

1. Introduction to Excel
2. Fundamentals of Excel
3. Cell Freezing and Referencing
4. Paste Special
5. Conditional Formatting
6. Sorting, Filter, SUM and SUMIF
7. COUNT, COUNTIF and COUNTIFS
8. Average, Max, Min, Median and CAGR

Module 2: Excel Functions 2

9. Rounding Function – ROUNDUP and ROUNDDOWN
10. Text Functions
11. Advance
12. Charts
13. Group and Ungroup
14. Subtotal
15. Sum Product

Module 3: Excel Functions 3

16. Large and Small
17. Text to Column
18. What if analysis – Data Table
19. IRR and NPV
20. PPS – Choose Function
21. Transpose
22. Pivot Table
23. Analytics

Module 4: Excel Functions 4

24. Query Editor
25. Power Query 2
26. Power Query 3
27. Power Query 4
28. Index and Constitutional Columns
29. Grouping and Aggregating Data
30. Power Query 5

Module 1: Excel Functions 5

31. Introduction to Data Models
32. Primary Key, Foreign Key, Data table and Lookup
33. Creating Relationships
34. Hierarchies
35. Power Pivot
36. Dashboards



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